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_	APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	•
10/789,948		02/26/2004		Brian N. Pierce	022122-000410US	5787	•
	20350	7590	03/14/2006		EXAMINER		
	TOWNSEN	D AND	TOWNSEND AND	JOHNSON III, HENRY M			
	TWO EMBA	RCADE	RO CENTER			_	
	EIGHTH FLOOR				ART UNIT	PAPER NUMBER	
	CANIEDANIC	TSCO C	A 0/111 202/		2220		

DATE MAILED: 03/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	10/789,948	PIERCE, BRIAN	N.					
Office Action Summary	Examiner	Art Unit						
	Henry M. Johnson, III	3739						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ac	ldress					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ Responsive to communication(s) filed on <u>30 Ja</u>	nuary 2006.							
,	action is non-final.							
3) Since this application is in condition for allowar		secution as to the	e merits is					
closed in accordance with the practice under E	•							
Disposition of Claims								
4) Claim(s) 1-23 is/are pending in the application.								
4a) Of the above claim(s) <u>9-23</u> is/are withdrawn								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-8</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or	r election requirement.							
Application Papers								
9) The specification is objected to by the Examine	r							
10)⊠ The drawing(s) filed on <u>26 February 2004</u> is/are: a) accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
	priority under 35 U.S.C. & 110/a) (d) or (f)						
12) Acknowledgment is made of a claim for foreign	phonty under 35 U.S.C. § 119(a))-(u) or (1).						
a) All b) Some * c) None of:	s have been received							
1. Certified copies of the priority documents		on No						
2. Certified copies of the priority documents			Stago					
3. Copies of the certified copies of the prior		eu III uiis Nauonai	Stage					
application from the International Bureau * See the attached detailed Office action for a list	• • •	2d						
See the attached detailed Office action for a list	of the certified copies not receive	a.						
Attachment(s)	A) [] Into-cia C	(PTO 412)						
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal F		O-152)					
Paper No(s)/Mail Date <u>012406 071904</u> .	6) Li Other:							

DETAILED ACTION

Claims 9-23 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in the reply filed on January 30, 2006.

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: label 54 (page 25 of disclosure). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The use of shading in views is encouraged if it aids in understanding the invention and if it does not reduce legibility. Solid black shading areas are not permitted, except when used to represent bar graphs or color (37 CFR 1.84). The drawings include black shading in non-permitted areas that significantly reduce the legibility. Corrected drawings are required.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or

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improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1, 3, 4, 5, and 6 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 20, 21 and 39 of copending Application No. 10/138350. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are a minor and obvious change in scope.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over U.S. Patent 6,149,671 to Nordquist et al. Nordquist et al. disclose a method for treating a neoplasm, such as a malignant tumor, in humans and other

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animals. A chromophore and an immunoadjuvant are introduced into the neoplasm. The neoplasm is then lased at an irradiance sufficient to induce neoplastic cellular destruction and to stimulate the self-immunological defense system against neoplastic cellular multiplication (abstract). A malignant tumor, is injected with a solution containing a chromophore. A low energy laser emitting a wavelength of radiation complementary to that of the chromophore is then focused on the neoplasm for a duration sufficient to elevate the temperature of the neoplasm to a level that induces neoplastic cellular destruction and stimulates the self-immunological defense system against neoplastic cellular multiplication (Col. 6, lines 1-11). The wavelength selected is not readily absorbed by normal tissue, so collateral damage is reduced (Col. 6, lines 58-61). Nordquist et al. teach radiation wavelengths from 150 to 2000 nanometers (Col. 8, line 27), although indocyanine green is specifically cited with a known absorption between 500 and 1100 nanometers. Nordquist et al. teach raising the temperature of the tumor by 40 °C above normal while maintaining the non-target tissue at temperatures about 20 °C less (Col. 12, lines 49-52). A fiber optic may be used for delivery of the radiation (Col. 6, line 67).

Regarding claims 3 and 4, Nordquist et al. claims treatment of malignant tumors. This is interpreted as being a generic treatment regardless of the tumor location.

Nordquist et al. achieves different absorption levels by the introduction of a chromophore. It is well known in the art to use endogenous chromophores such a hemoglobin or porphyrin in the targeting of light therapy in tissue. It is therefore obvious to take such endogenous chromophores into consideration.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent 6,071,944 to Rodgers et al. teaches cancer cell therapy using radiation to excite endogenous chromophores.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry M. Johnson, III whose telephone number is (571) 272-4768. The examiner can normally be reached on Monday through Friday from 6:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C. Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Henry M. Johnson, III Primary Examiner

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